

Geology of Iowa Workshop lesson plan
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Description: Students will learn what rock and mineral resources are found or have been found in Iowa that are useful in our lives.

Objective/Goals: My goal for students is to help them see the importance of Iowa's wealth of rock and mineral resources (past and present) and to see how important they are in our daily life.

Implementation: Students will receive rock and mineral samples (or a picture if a sample is unavailable) along with an accompanying description of the resource on a separate notecard. On the backside of the notecard it will have a description of how each resource is used in our lives. They must copy each of the minerals or rocks listed below on a separate piece of paper. They will then need to look at each sample and read the description. After looking at each sample they should guess a use for it. When done, they will need to flip the notecard, read the use for it, and copy it down.

Evaluation: Students will make a poster subdivided into quadrants (or one picture that has 4 examples). Each quadrant must have a picture and description that shows how we use a mineral or rock (found in IA) in their daily life

Samples needed for the activity are...

A sample use is listed beside each

- Sand → used under concrete, To make concrete, to make glass, strip paint
- Rounded pea sized gravel → Used in playgrounds, surround buried tile
- Large rounded gravel → Used in landscaping
- Crushed limestone → recreational trails, concrete
- Clay → bricks
- Gypsum → wallboard
- Lime Powder → neutralize acidic water or soil, used in power plants
- Galena → bullets, sinkers for fishing
- Coal → generate electricity
- Dimension Stone → buildings, landscaping
- Soil → grow food or decorative plantings